Quantum

NETWORK ATTACHED STORAGE

8TB NAS AVAILABLE AS TOWER OR 1U RACK
12TB NAS AVAILABLE AS 1U RACK

DATA PROTECTION AND PRIMARY STORAGE MODELS

AVAILABLE WITH CLIENT-SIDE DEDUPLICATION SOFTWARE FOR BACKUP AND DISASTER RECOVERY TO DISK, TAPE, AND CLOUD

DESIGNED FOR PERFORMANCE AND RELIABILITY FEATURING BUSINESS-CLASS HARDWARE AND WINDOWS STORAGE SERVER OS

TWICE THE PROCESSING POWER AND RAM THAN THE COMPETITORS

NDX Series

Primary Storage, Data Protection and Disaster Recovery

QUANTUM NDX SERIES

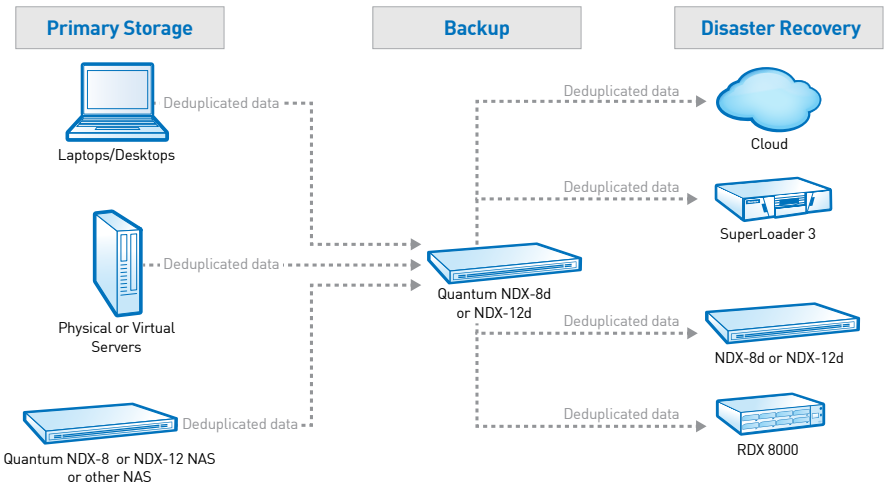
The Quantum NDX Series network-attached storage (NAS) products offer a platform to build a complete end-to-end data storage and protection solution that meets your company's needs.

QUANTUM NDX-8d AND NDX-12d DATA PROTECTION NAS

The NDX-8d and NDX-12d NAS with deduplication are the keystone to a robust data protection architecture. Centrally managed, agentless backup protects and reduces your data up to 90%, controlling data growth and reducing network traffic through the power of deduplication. The NDX-d series also offers unmatched disaster recovery options to meet your business needs, including replication to another NDX at a second site or to the cloud, or offsite protection with RDX removable disk or tape via a SuperLoader® 3 autoloader. Plus, all data is deduplicated, reducing disk, tape and cloud storage use dramatically.

QUANTUM NDX-8 AND NDX-12 NAS FOR PRIMARY STORAGE

Business-class primary storage is available with the Quantum NDX-8 or NDX-12 NAS. These systems feature faster, more reliable components including enterprise-class hard drives, and feature a Windows Storage Server operating system for seamless compatibility in any environment. A great solution on their own, they are also the perfect primary storage solution paired with the NDX-d Series data protection appliances.



FEATURES AND BENEFITS

- **End-to-end solution –** Flexible affordable platform for data storage and protection with unmatched disaster recovery options including disk, tape, and cloud
- **Quantum NDX-8d and NDX-12d with integrated client-side deduplication software**
  - Controls data growth, reducing the amount of data stored and network traffic by up to 90%
  - Available as an all-in-one unlimited model or base model, allowing for customized solutions that meet your technical needs and budget
  - Agentless backup – No software to install on the clients
- **Disaster Recovery options –** Include replication to a second NDX, RDX removable disk, SuperLoader 3 tape autoloader, and cloud
- **Quantum NDX-8 and NDX-12 – True business-class NAS for primary storage**
  - Windows Storage Server, enterprise-class hard drives and best-in-class processing power and RAM
  - Identical hardware and operating system for seamless integration with NDX-8d or NDX-12d

DATASTOR SHIELD EXPECTED COMPRESSION/DEDUPLICATION

Initial Backup: 2:1
Subsequent Backups: 20:1

CAPACITY AND PERFORMANCE

Available Form Factor: Tower or 1U Rack for 8TB version, 1U Rack for 12TB version
Total Capacity: 8TB Raw/5.5TB usable (RAID 5) for 8TB version, 12TB Raw/8.7TB usable (RAID 5) for 12TB version
HDD Bays: 4 Hot Swap
Included HDDs: 4 × 2TB, Enterprise Class for 8TB version, 4 x 3TB, Enterprise Class for 12TB version
HDD Speed: 7200 RPM, SATA-2 (300 Gigabit/sec)
RAID: Factory set to RAID 5
Processor: Intel Core i3-2100, 3.3Ghz (Sandy Bridge)
RAM: 4GB (2×2GB) Included, 4 Sockets Total (32GB Max)
Ethernet: 2 RJ45 Gigabit Ethernet Ports
Operating System: Windows Storage Server 2008 R2 Workgroup

EXPANSION SLOTS, PORTS AND BAYS

	Tower	1U Rack
5.25" Peripheral Bay	2	-
USB Port External	4	4
Available PCI-e Slots	1	1
Available SATA-2 Ports	2	2
VGA Port	1	1
PS/2 Keyboard/Mouse Ports	Yes	Yes
Serial Port	1	1

WARRANTY

NDX-8 & NDX-8d: 3 Years Rapid Exchange
NDX-12 & NDX-12d: 3 Years Rapid Exchange
DATASTOR Shield Software: 1 Year (Base Model)/3 Year (Unlimited Bundle)

TAPE AND CLOUD SUPPORT

Tape: SuperLoader 3 (LTO-4, LTO-5) requires PCI-e HBA (SAS, SCSI)
Cloud: Amazon S3 (25 cents/GB)

PHYSICAL SPECIFICATIONS

	Tower	1U Rack
Height (in/mm)	16.8/427	1.7/43
Width (in/mm)	7/178	17.2/437
Length (in/mm)	20.9/531	19.8/503
Weight (lb/kg)	39/17.7	38/16.5

PROTOCOL SUPPORT

Networking: TCP/IP
File Sharing: CIFs/SMB, NFS, IIS, (FTP/FTPS, HTTP/HTTPS)
Directory Integration: LDAP, Active Directory

ENVIRONMENTAL

OPERATING
Temperature °F (°C): 50° to 95° (10° to 35°)
Humidity: 10% to 90% Non-condensing

NON-OPERATING
Temperature °F (°C): -40° to 158° (-40° to 70°)
Humidity: 5% to 95% Non-condensing

POWER REQUIREMENTS (8 DISKS RUNNING)

Tower: 100-240V, 50-60Hz, 6-3 Amp
1U Rack: 100-240V, 50-60Hz, 4.2-1.8 Amp

MINIMUM SYSTEM REQUIREMENTS FOR PROTECTED CLIENTS

Server Type	Operating Systems	Processor Speed	Memory
Protected Servers	Windows Server 2003, 2008 (32- and 64-bit)	Single 2GHz CPU or better	2GB RAM
Protected Desktop/ Laptops	Windows XP, Vista and 7 (32- and 64-bit)	Single 1GHz CPU or better	1GB RAM

SAFETY & AGENCY

UL, FCC, CUL, TUV, CE, EN 60950/IEC 60950, CCC

Quantum NDX-8d & NDX-12d NAS Models with DATASTOR Shield for Data Backup and Disaster Recovery

Model Number	NAS Model Name	Model Description	DATASTOR Shield Licenses Included
DNADS-CSTQ-008A	Quantum NDX-8d tower	8TB NAS, DATASTOR Shield client-side data deduplication software	1 management console 1 Windows server/virtual server 10 Windows desktops/laptops
DNADS-CS1Q-008A	Quantum NDX-8d 1U rack		
DNADS-CS1Q-008B	NDX-8d Unlimited Bundle 1U rack		Enterprise Protection Server MGR, unlimited servers, and unlimited workstations
DNADS-CS1Q-012A	Quantum NDX-12d 1U rack	12TB NAS, DATASTOR Shield client-side data deduplication software	1 management console 1 Windows server/virtual server 10 Windows desktops/laptops
DNADS-CS1Q-012B	NDX-12d Unlimited Bundle 1U rack		Enterprise Protection Server MGR, unlimited servers, and unlimited workstations

Quantum NDX-8 & NDX-12 NAS Models for Primary Storage

Model Number	NAS Model Name	Model Description
DNADS-CTTQ-008A	Quantum NDX-8 tower	8TB NAS, WSS 2008 R2 Workgroup
DNADS-CT1Q-008A	Quantum NDX-8 1U each	
DNADS-CT1Q-012A	Quantum NDX-12 1U	12TB NAS, WSS 2008 R2 Workgroup

Accessories, Upgrades and Licenses

Model Number	Product
DNADS-ALCL-001A	Single Desktop/Laptop Windows Client
DNADS-ALCL-005A	5-Pack Desktop/Laptop Windows Clients
DNADS-ALSL-001A	Single Windows Server/Virtual Server Client
DNADS-ALSL-003A	3-Pack Windows Server/Virtual Server Clients
DNADS-ALAF-001A	Advanced Protection Package Includes Bare Metal Restore, Replication and SQL/Exchange Support
SNADS-ESDS-T520	Quantum DATASTOR Shield, 2-Year Software Warranty Extension, includes coverage and updates for all licenses for a single NDX-8d NAS
TR000-CNDB-S0BA	RDX Internal USB Dock for NDX-8/NDX-8d Tower (Tower can accept 2 internal) – Other RDX options available
TR100-CTDB-S1BA	RDX 1TB Cartridges

ABOUT QUANTUM

Quantum is a proven global expert in Data Protection and Big Data management, providing specialized storage solutions for physical, virtual and cloud environments. From small businesses to major enterprises, more than 50,000 customers trust Quantum to help maximize the value of their data by protecting and preserving it over its entire lifecycle. With Quantum, customers can Be Certain they're able to adapt in a changing world – keeping more data longer, bridging from today to tomorrow, and reducing costs. See how at **www.quantum.com/BeCertain**.

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